

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/NL 03/00752

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01D63/02 B01D63/04 B01D65/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 038 190 A (ROCHET MICHEL ET AL) 26 July 1977 (1977-07-26) abstract; figures 5,10-13,17 column 2, line 5 - line 38 column 3, line 9 - line 49 column 6, line 34 - line 55 column 8, line 37 - line 46 column 10, line 49 - line 52	1,2,5,10
A	----- -/--	11

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

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\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

8 March 2004

Date of mailing of the international search report

15/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Hoornaert, P

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 09, 31 October 1995 (1995-10-31) -& JP 07 148421 A (DAICEL CHEM IND LTD), 13 June 1995 (1995-06-13) abstract; figures paragraphs '0017!-'0019! -& DATABASE WPI Derwent Publications Ltd., London, GB; AN 1995-242858 XP002247974 & JP 07 148421 A abstract	1,2,5,10
A	----	11
X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 08, 29 September 1995 (1995-09-29) -& JP 07 124445 A (DAICEL CHEM IND LTD), 16 May 1995 (1995-05-16) abstract; figures paragraphs '0001!', '0003!', '0005!', '0006!', '0008!', '0012!', '0013!', '0017!', '0018! -& DATABASE WPI Derwent Publications Ltd., London, GB; AN 1995-211792 XP002247975 & JP 07 124445 A abstract	1,2,5,10
A	----	11
X	EP 0 331 067 A (AKZO NV) 6 September 1989 (1989-09-06) the whole document	1-3,5,10
A	----	11
X	PATENT ABSTRACTS OF JAPAN vol. 008, no. 052 (C-213), 9 March 1984 (1984-03-09) -& JP 58 207904 A (NITTO DENKI KOGYO KK), 3 December 1983 (1983-12-03) abstract; figures 4A,4B -& DATABASE WPI Derwent Publications Ltd., London, GB; AN 1984-014761 XP002247976 & JP 58 207904 A abstract	1,2,5
A	US 6 183 639 B1 (DE WINTER DIRK) 6 February 2001 (2001-02-06) the whole document	1,2,5,10
	----- -/-	

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01 32299 A (HOOGEVEEN PAUL ERIK ;FUTSELAAR HARRY (NL); STORK FRIESLAND BV (NL)) 10 May 2001 (2001-05-10) abstract; figures 2-6 page 6, line 29, paragraph 29 -page 9, line 21 ---	1,2,5,10
A	PATENT ABSTRACTS OF JAPAN vol. 011, no. 176 (C-426), 5 June 1987 (1987-06-05) -& JP 62 001409 A (KURITA WATER IND LTD), 7 January 1987 (1987-01-07) abstract; figures -& DATABASE WPI Derwent Publications Ltd., London, GB; AN 1987-045411 XP002247977 & JP 62 001409 A abstract ---	1,10
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 08, 29 August 1997 (1997-08-29) -& JP 09 099222 A (MITSUBISHI RAYON CO LTD), 15 April 1997 (1997-04-15) abstract; figures 1-3 -& DATABASE WPI Derwent Publications Ltd., London, GB; AN 1997-275808 XP002247978 & JP 09 099222 A abstract -----	8

## INTERNATIONAL SEARCH REPORT

International publication No

PCT/NL 03/00752

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4038190	A	26-07-1977	FR 2231421 A1	27-12-1974
			BE 815697 A1	29-11-1974
			CH 603230 A5	15-08-1978
			DE 2425945 A1	19-12-1974
			GB 1470075 A	14-04-1977
			IT 1021026 B	30-01-1978
			JP 1085105 C	25-02-1982
			JP 50020989 A	05-03-1975
			JP 56028565 B	02-07-1981
			NL 7406929 A	03-12-1974
			SE 397638 B	14-11-1977
			SE 7407096 A	02-12-1974
JP 07148421	A	13-06-1995	JP 2724669 B2	09-03-1998
JP 07124445	A	16-05-1995	NONE	
EP 0331067	A	06-09-1989	DE 8802771 U1	06-07-1989
			AU 3100989 A	07-09-1989
			EP 0331067 A2	06-09-1989
			JP 2006825 A	11-01-1990
JP 58207904	A	03-12-1983	NONE	
US 6183639	B1	06-02-2001	NONE	
WO 0132299	A	10-05-2001	NL 1013465 C2	03-05-2001
			AU 1739701 A	14-05-2001
			EP 1250187 A1	23-10-2002
			WO 0132299 A1	10-05-2001
			US 2002162785 A1	07-11-2002
JP 62001409	A	07-01-1987	NONE	
JP 09099222	A	15-04-1997	NONE	